

## **John D. Macfadyen**

### **FIELDS of COMPETENCE**

Mr. Macfadyen has more than 40 years experience in minerals and metals processing, with particular emphasis on the Lime and Portland cement industry, including geological and chemical evaluation of raw material deposits, process design and development, plant design, project management, economic and financial analysis and environmental compliance. He has extensive experience in engineering management with progressive responsibilities at all levels including CEO of two engineering companies.

### **PROFESSIONAL EXPERIENCE SUMMARY:**

President, Phoenix Process Engineering, Inc., St. Peters, MO USA.

Past President, Director, Penta Engineering Corp., St. Louis, MO

Formerly Vice President and General Manager, Bendy Engineering Company, St. Louis, MO, a div. of Morrison Knudsen Corp. and Reid Crowther Bendy International, Toronto, Canada.

In these positions he was responsible for Business Development, Management, Finance, Engineering and Technical Development.

Project Director for the development of new cement plants in the United States, Canada, Chile, Turkey and Hong Kong. Responsible for the process design, site selection, layout and engineering of the plants, quarries and terminal facilities. Organized and directed the engineers and designers on these projects.

Project Manager for the modernization of the St. Marys, Ontario plant and the expansion of the Bowmanville, Ontario plant of St. Marys Cement Company. Directed the work of the teams on these projects. The work was done in offices in Toronto and St. Louis requiring extensive coordination and communication systems.

Project Director and Principal on numerous studies and planning projects for the cement, lime, lightweight aggregate and other industrial minerals including economic evaluation of these projects.

Project Manager on numerous engineering projects for lime, cement, lightweight aggregates, non-ferrous metals, solid fuel grinding and firing systems, air pollution control systems and other unit processes.

Project Manager, development of a Hazardous Waste Incinerator and related waste processing facilities and air pollution control systems.

Maintenance Supervisor of a cement plant and Process Shift Supervisor of a Precious Metals recovery plant earlier in his career.

### **EDUCATIONAL and PROFESSIONAL CREDENTIALS:**

Colorado School of Mines, Geological Engineer (Silver Diploma)

Colorado School of Mines, Metallurgical Engineer (Silver Diploma)

Washington University, Master in Business Administration

Member, Society for Mining, Metallurgy and Exploration of AIME

Member, Air and Waste Management Association

Registered Professional Engineer, Missouri, USA and Ontario, Canada